

FIG. 1

200 USER

50 USER TERMINAL

1 PLAYER

210 SYSTEM ADMINISTRATION COMPANY

211 ADMINISTRATION CENTER

212 STORE

220 FINANCE ORGANIZATION

230 VIRTUAL STORE

240 CONTENT PROVIDER

FIG. 2

2 ANALOG OUTPUT TERMINAL

3 PC INTERFACE TERMINAL

4 STORAGE MEDIUM I/O TERMINAL

5 BATTERY

6 INPUT KEY

7 DISPLAY DEVICE

14 PASSWORD

16 CONTROLLER

17 ROM

18 TIMER

20 PUBLIC-KEY ENCODING/DECODING CIRCUIT

21 COMMUNICATION-KEY STORAGE MEMORY

22 COMMON-KEY STORAGE MEMORY  
23 USER ID  
24 COMMON-KEY ENCODING/DECODING CIRCUIT  
25 BUFFER  
25 HASH FUNCTION CIRCUIT  
26 CONTENT DECOMPRESSING CIRCUIT  
27 D/A CONVERTING CIRCUIT  
28 POINT INFORMATION (BALANCE)  
29 POINT USAGE INFORMATION (COPYRIGHT HOLDER)

FIG. 3

100 CONTENT ADMINISTRATION FUNCTION  
101 CONTROL FUNCTION  
102 DATABASE, CONTENT ID, CONTENT KEY, USE CONDITION,  
COPYRIGHT HOLDER  
103 CONTENT KEY AND ID GENERATING FUNCTION  
104 CONTENT ENCODING AND COMPRESSING FUNCTION  
105 CONTENT DISPLAY FUNCTION  
110 USER ADMINISTRATION FUNCTION  
111 CONTROL FUNCTION  
112 DATABASE, USER ID, USER PERSONAL INFORMATION, USER  
SETTLEMENT INFORMATION, INFORMATION TRANSFER HISTORY, USER  
PLAYER-UNIQUE KEY, SECURITY-ASSOCIATED DATA, PUBLIC KEY  
SEND POINT, OTHERS.

113 POINT GENERATING FUNCTION  
114 COMMUNICATION STATEMENT ENCODING/DECODING FUNCTION  
115 CONFIRMATION MESSAGE GENERATING FUNCTION  
116 SECURITY ID GENERATING FUNCTION  
117 SETTLEMENT BILLING FUNCTION  
118 USER SUBSCRIPTION PROCESSING FUNCTION  
120 USAGE INFORMATION ADMINISTRATION FUNCTION  
121 CONTROL FUNCTION  
122 DATABASE, COPYRIGHT HOLDER, CONSUMED POINT COUNT,  
OTHERS.  
123 USAGE INFORMATION COMPUTING FUNCTION  
130 ADMINISTRATION FUNCTION  
131 CONTROL FUNCTION  
132 COMMUNICATION WITH FINANCE ORGANIZATION  
133 COMMUNICATION WITH USER TERMINAL  
134 COMMUNICATION WITH PROPRIETOR AND OTHERS

**FIG. 4**

200 USER  
50 USER TERMINAL  
1 PLAYER  
210 SYSTEM ADMINISTRATION COMPANY  
211 ADMINISTRATION CENTER  
212 STORE

220 FINANCE ORGANIZATION

(1) PERSONAL INFORMATION/FEE

(5) SELLS PLAYER

(2) REGISTER PERSONAL INFORMATION AND PLAYER-UNIQUE NUMBER

(KEY)

(3) CONFIRM ACCOUNT NUMBER AND CREDIT NUMBER

(4) INFORMATION INDICATING THAT ACCOUNT CAN BE OPENED WITH  
USER

FIG. 5

200 USER

50 USER TERMINAL

1 PLAYER

210 SYSTEM ADMINISTRATION COMPANY

211 ADMINISTRATION CENTER

230 VIRTUAL STORE

240 CONTENT PROVIDER

(1) CONTENT SEARCH, SELECT, EDIT AND ORDER

(6) SUPPLY CONTENT

(2) REQUEST FOR CONTENT SUPPLY

(5) SUPPLY MANIPULATED CONTENT

(3) REQUEST FOR CONTENT SUPPLY

(4) SUPPLY CONTENT

FIG. 6

200 USER

50 USER TERMINAL

1 PLAYER

210 SYSTEM ADMINISTRATION COMPANY

211 ADMINISTRATION CENTER

220 FINANCE ORGANIZATION

240 CONTENT PROVIDER

(1) ENCODED POINT REPLENISH REQUEST AND USED POINT

COPYRIGHT HOLDER INFORMATION

(5) ENCODED POINT REPLENISH INSTRUCTION

(3) SETTLEMENT OK INSTRUCTION

(2) CONFIRM SETTLEMENT OF REPLENISHED POINT

(4) NOTIFY COPYRIGHT HOLDER OF POINT COUNT

FIG. 7

200 USER

50 USER TERMINAL

1 PLAYER

210 SYSTEM ADMINISTRATION COMPANY

211 ADMINISTRATION CENTER

220 FINANCE ORGANIZATION

230 VIRTUAL STORE

240 CONTENT PROVIDER

- (1) REQUEST FOR PAYING FEE
- (2) PAY FEE
- (3) SEND FEE
- (4) PAY COPYRIGHT FEE ACCORDING TO POINT
- (5) PAY STORE COMMISSION

FIG. 8

START

ST1 WAIT FOR STARTING SOFTWARE OF USER TERMINAL FOR POINT PURCHASING.

ST2 RECEIVE INFORMATION INPUTTED IN USER TERMINAL.

ST3 COMPARE WITH BUILT-IN PASSWORD AND CONFIRM.

ST4 GENERATE SECURITY ID, PURPOSE OF POINT PURCHASE, AND POINT COUNT TO BE PURCHASED.

ST5 REQUEST FOR POINT AND ENCODE POINT USAGE INFORMATION.

ST6 ATTACH USER ID.

ST7 TRANSFER THE GENERATED DATA TO USER TERMINAL.

ST8 RECEIVE DATA FROM ADMINISTRATION CENTER THROUGH USER TERMINAL.

ST9 DECODE THE DATA.

ST10 CHECK SECURITY ID.

ST11 CORRECT THE POINT.

ST12 GENERATE SIGN INDICATING PROCESSING COMPLETION AND ENCODE THE GENERATED SIGN.

ST13 TRANSFER THE ENCODED SIGN TO USER TERMINAL.

END

PROCESSING FLOW IN PLAYER AT PURCHASING POINT

FIG. 9

START

ST21 START SOFTWARE FOR POINT PURCHASING.

ST22 TRANSFER INPUT INFORMATION SUCH AS PASSWORD AND POINT COUNT TO BE PURCHASED.

ST23 RECEIVE DATA GENERATED BY PLAYER.

ST24 TRANSFER THE DATA COMING FROM PLAYER TO ADDRESS OF ADMINISTRATION CENTER.

ST25 TRANSFER DATA TO BE SENT FROM ADMINISTRATION CENTER TO PLAYER TO PLAYER DIRECTLY.

ST26 RECEIVE SIGN INDICATING PROCESSING COMPLETION FROM PLAYER.

ST27 DISPLAY AND CONFIRM THE SIGN.

ST28 TRANSFER CRYPTOGRAPH OF THE SIGN TO ADMINISTRATION CENTER.

END

PROCESSING FLOW IN USER TERMINAL AT POINT PURCHASING

FIG. 10

START

ST31 RECEIVE DATA FROM USER TERMINAL.

ST32 BASED ON USER ID, OBTAIN COMMON KEY AND SECURITY ID FROM DATABASE.

ST33 DECODE THE CRYPTOGRAPH AND CHECK VALIDITY AND CONTENTS.

ST34 ISSUE POINT AND PREPARE BILLING FOR USER SETTLEMENT ORGANIZATION.

ST35 FROM POINT BALANCE AND POINT USAGE INFORMATION, CONFIRM THAT THERE IS NO ILLEGALITY AND REORGANIZE THE INFORMATION.

ST36 COMPUTE SECURITY ID AND ENCODE THE SAME ALONG WITH POINT INFORMATION.

ST37 TRANSFER DATA TO PLAYER THROUGH USER TERMINAL.

ST38 RECEIVE SIGN INDICATING PROCESSING COMPLETION.

ST39 BASED ON THE SIGN, REQUEST SETTLEMENT.

END

PROCESSING FLOW IN ADMINISTRATION CENTER AT POINT PURCHASING

FIG. 11

PLAYER	USER TERMINAL	ADMINISTRATION CENTER
TRANSFER INPUT INFORMATION T1		
	TRANSFER CREATED DATA T2	
		TRANSFER DATA T3

TRANSFER WITHOUT CHANGE T5      TRANSFER DATA T4  
TRANSFER SIGN T6      TRANSFER SIGN CRYPTOGRAPH T7  
SEQUENCE AT POINT PURCHASING

FIG. 12

START  
ST41 WAIT FOR STARTING SOFTWARE OF USER TERMINAL FOR  
OBTAINING CONTENT.  
ST42 RECEIVE CONTENT (RECEIVE ENCODED CONTENT AND CONTENT  
ID).  
ST43 STORE THE RECEIVED CONTENT INTO STORAGE MEDIUM.  
END  
PROCESSING FLOW IN PLAYER AT OBTAINING CONTENT

FIG. 13

START  
ST51 START SOFTWARE FOR OBTAINING CONTENT.  
ST52 ACCESS ADMINISTRATION CENTER.  
ST53 SPECIFY DESIRED CONTENT.  
ST54 TRANSMIT CONTENT SPECIFYING INFORMATION.  
ST55 RECEIVE THE CONTENT FROM ADMINISTRATION CENTER (RECEIVE THE ENCODED CONTENT AND CONTENT ID).  
ST56 STORE THE RECEIVED CONTENT.

ST57 TRANSFER THE CONTENT TO PLAYER (TRANSMIT THE ENCODED  
CONTENT AND CONTENT ID).

END

PROCESSING FLOW IN USER TERMINAL AT OBTAINING CONTENT

FIG. 14

START

ST61 RECEIVE THE CONTENT SPECIFYING INFORMATION FROM USER  
TERMINAL.

ST62 TRANSMIT THE CONTENT TO USER TERMINAL (TRANSMIT THE  
ENCODED CONTENT AND CONTENT ID).

END

PROCESSING FLOW IN ADMINISTRATION CENTER AT OBTAINING  
CONTENT

FIG. 15

PLAYER	USER TERMINAL	ADMINISTRATION CENTER
		TRANSFER CONTENT SPECIFYING INFORMATION T11
		TRANSFER CONTENT T12
		TRANSFER CONTENT T13
		SEQUENCE AT OBTAINING CONTENT

FIG. 16

START

ST71 START SOFTWARE OF USER TERMINAL FOR OBTAINING CONTENT KEY.

ST72 RECEIVE CONTENT SPECIFYING INFORMATION FROM USER TERMINAL.

ST73 GENERATE ID OF SPECIFIED CONTENT, USER ID, ENCODED MESSAGE, AND SECURITY ID.

ST74 TRANSFER GENERATED DATA TO USER TERMINAL.

ST75 RECEIVE ENCODED DATA COMING FROM ADMINISTRATION CENTER THROUGH USER TERMINAL.

ST76 DECODE THE DATA AND CHECK VALIDITY.

ST77 STORE THE DECODED DATA INTO COMMON-KEY STORAGE MEMORY ALONG WITH CONTENT ID.

ST78 GENERATE MESSAGE INDICATING THAT THE KEY HAS BEEN OBTAINED AND ENCODES THE MESSAGE.

ST79 TRANSMIT THE ENCODED MESSAGE TO USER TERMINAL.

END

PROCESSING FLOW IN PLAYER AT OBTAINING CONTENT KEY.

FIG. 17

START

ST81 START SOFTWARE FOR OBTAINING CONTENT KEY.

ST82 GENERATE INFORMATION FOR SPECIFYING DESIRED CONTENT.

ST83 TRANSMIT THE CONTENT SPECIFYING INFORMATION TO PLAYER.

ST84 RECEIVE DATA GENERATED IN PLAYER.

ST85 TRANSFER DATA COMING FROM PLAYER TO ADDRESS OF  
ADMINISTRATION CENTER.

ST86 RECEIVE ENCODED DATA COMING FROM ADMINISTRATION  
CENTER.

ST87 TRANSFER THE ENCODED DATA COMING FROM ADMINISTRATION  
CENTER TO PLAYER.

ST88 RECEIVE MESSAGE FROM PLAYER.

ST89 DISPLAY THAT THE KEY HAS BEEN OBTAINED.

ST90 SEND ENCODED DATA TO ADMINISTRATION CENTER.

END

PROCESSING FLOW IN USER TERMINAL AT OBTAINING CONTENT KEY  
AND USE CONDITION

FIG. 18

START

ST91 RECEIVE DATA GENERATED BY PLAYER AND TRANSMITTED  
THROUGH USER TERMINAL.

ST92 DECODE THE RECEIVED DATA AND CHECK VALIDITY.

ST93 ENCODE CONTENT KEY SPECIFIED BY CONTENT ID, USE  
CONDITION, AND SECURITY ID.

ST94 SEND THE ENCODED DATA TO PLAYER THROUGH USER TERMINAL.

ST95 RECEIVE THE ENCODED DATA FROM USER TERMINAL.

ST96 CONFIRM THAT THE CONTENT KEY HAS BEEN OBTAINED.

END

PROCESSING FLOW IN ADMINISTRATION CENTER AT OBTAINING  
CONTENT KEY AND USE CONDITION

FIG. 19

PLAYER	USER TERMINAL	ADMINISTRATION CENTER
		TRANSFER CONTENT SPECIFYING INFORMATION T21
		TRANSFER GENERATED DATA T22
		TRANSFER GENERATED DATA T23
SEND ENCODED DATA T25		SEND ENCODED DATA T24
	TRANSFER MESSAGE T26	
		SEND ENCODED DATA T27
		SEQUENCE OF OBTAINING CONTENT KEY AND USE CONDITION

FIG. 20

START

ST101 SPECIFY DESIRED CONTENT FOR STORAGE MEDIUM.

ST102 ACCESS STORAGE MEDIUM TO READ ID OF THE DESIRED  
CONTENT.

ST103 CHECK FOR CONTENT KEY AND USE CONDITION.

ST104 DECODE ENCODED CONTENT KEY AND USE CONDITION.

ST105 BASED ON THE DECODED USE CONDITION, CHECK BALANCE OF  
POINT.

ST106 DECREMENT SPECIFIED POINT AND WRITE NEW PROPRIETOR OF  
THE DECREMENTED POINT TO POINT USAGE INFORMATION ALONG WITH

POINT COUNT AND OTHER INFORMATION.

ST107 CONFIRM COMPLETION OF BILLING PROCESSING.

ST108 READ THE CONTENT FROM STORAGE MEDIUM.

ST109 TRANSFER THE CONTENT TO COMMON-KEY ENCODING/DECODING CIRCUIT.

ST110 USING THE DECODED CONTENT KEY, DECODE THE CONTENT.

ST111 DECOMPRESS THE DECODED CONTENT.

ST112 PERFORM D/A CONVERSION.

ST113 OUTPUT.

END

PROCESSING FLOW IN PLAYER AT VIEWING CONTENT

FIG. 21

START

ST121 WAIT FOR STARTING SOFTWARE OF USER TERMINAL FOR RETURNING USAGE INFORMATION.

ST122 RECEIVE INPUT INFORMATION SUCH AS PASSWORD INPUTTED IN USER TERMINAL.

ST123 COMPARE WITH BUILT-IN PASSWORD AND CONFIRM.

ST124 ENCODE POINT BALANCE AND POINT USAGE INFORMATION.

ST125 ATTACH USER ID.

ST126 TRANSFER GENERATED DATA TO USER TERMINAL.

ST127 RECEIVE THE DATA COMING FROM ADMINISTRATION CENTER THROUGH USER TERMINAL.

ST128 CHECK SECURITY ID.

ST129 CHECK MESSAGE INDICATING COMPLETION OF PROCESSING.

END

PROCESSING FLOW IN PLAYER AT RETURNING USAGE INFORMATION

**FIG. 22**

START

ST131 START SOFTWARE FOR RETURNING USAGE INFORMATION.

ST132 TRANSFER INPUT INFORMATION SUCH AS PASSWORD TO  
PLAYER.

ST133 RECEIVE DATA GENERATED BY PLAYER.

ST134 TRANSFER THE DATA COMING FROM PLAYER TO ADDRESS OF  
ADMINISTRATION CENTER.

ST135 TRANSFER THE DATA TO BE SENT FROM ADMINISTRATION  
CENTER TO PLAYER DIRECTLY TO PLAYER.

ST136 DISPLAY COMPLETION OF PROCESSING AND CONFIRM.

END

PROCESSING FLOW IN USER TERMINAL AT RETURNING USAGE  
INFORMATION

**FIG. 23**

START

ST141 RECEIVE DATA FROM USER TERMINAL

ST142 BASED ON USER ID, OBTAIN COMMON KEY AND SECURITY ID.

ST143 DECODE CRYPTOGRAPH AND CHECK VALIDITY AND CONTENTS OF THE DECODED DATA.

ST144 FROM POINT BALANCE AND USAGE INFORMATION, CONFIRM THAT THERE IS NO ILLEGALITY AND REORGANIZE THE INFORMATION.

ST145 COMPUTE SECURITY ID AND ENCODE THE SAME ALONG WITH MESSAGE INDICATING COMPLETION OF PROCESSING.

ST146 TRANSFER THE DATA TO PLAYER THROUGH USER TERMINAL.

END

PROCESSING FLOW IN ADMINISTRATION CENTER AT RETURNING USAGE INFORMATION

FIG. 24

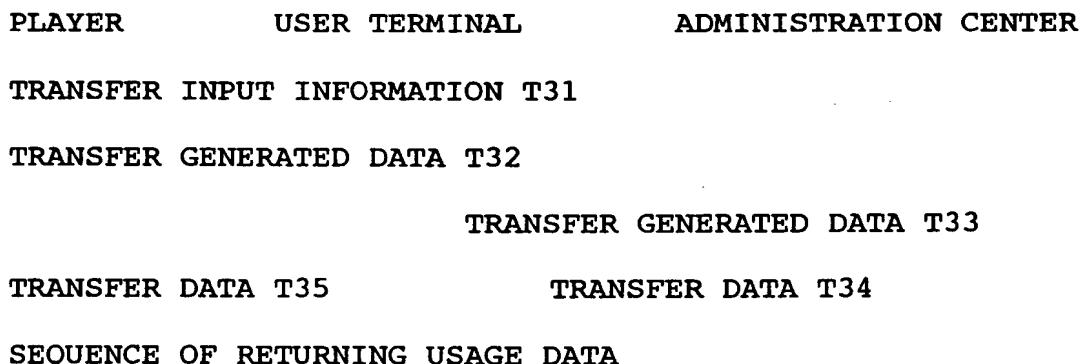


FIG. 25

START

ST151 INPUT ENCODED/COMPRESSED DATA.

ST152 PERFORM BIT DIVISION.

(1cm(X,Y)BIT ENCODED/COMPRESSED DATA)

ST153 DECODE CRYPTOGRAPH  
(1cm(X,Y)BIT COMPRESSED DATA)  
ST154 DECOMPRESS.  
(1cm(X,Y)BIT DATA)  
ST155 ALL DATA PROCESSED?  
END

FIG. 26

16 CONTROLLER  
ENCODED/COMPRESSED DATA  
30 INPUT  
31 DECODE (IN UNIT OF 64 BITS)  
25 BUFFER MEMORY (1.28K BITS)  
32 DECOMPRESS (IN UNIT OF 1.28K BITS)  
33 OUTPUT DECODED/DECOMPRESSED DATA

FIG. 27

FIG. 28

P1 MESSAGE M

P2 CALCULATE HASH VALUE

HASH VALUE (M)

P4 ENCODE SECRET KEY

P5 GENERATE RANDOM NUMBER

P6 ENCODE COMMON KEY

P7 GENERATE COMMON KEY FOR COMMUNICATION

P8 ENCODE PUBLIC KEY

PUBLIC KEY OF THE OTHER PARTY (COMMON KEY)

COMMON KEY FOR COMMUNICATION (M, OWN SECRET KEY (HASH  
VALUE (M)), RANDOM NUMBER

STATEMENT TO SEND

FIG. 29

PUBLIC KEY OF THE OTHER PARTY (COMMON KEY)

COMMUNICATION COMMON KEY (M, OWN SECRET KEY (HASH  
VALUE (M)), RANDOM NUMBER

RECEIVED STATEMENT

P11 DECODE SECRET KEY

COMMUNICATION COMMON KEY

P13 DECODE COMMON KEY

MESSAGE M

P14 DECODE PUBLIC KEY

P17 CALCULATE HASH VALUE

HASH VALUE (M)	HASH VALUE (M)
P19 COMPARE AND CONFIRM NO TAMPER	
P21 GENERATE RANDOM NUMBER	
P20 SET MESSAGE M TO ANOTHER FUNCTION	
P22 COMPARE RANDOM NUMBER AND CONFIRM VALIDITY	

**FIG. 30**

200 USER  
310 CONTENT DISPLAY AND DISTRIBUTION  
320 BILLING INFORMATION ADMINISTRATION  
330 SYSTEM ADMINISTRATION

**FIG. 31**

200 USER  
401 COMMUNICATION FUNCTION  
402 USER SUBSCRIPTION SUPPORT FUNCTION  
404 CONTENT DISTRIBUTING FUNCTION  
405 COLLECTING AND DISTRIBUTING FUNCTION  
403 DATABASE FUNCTION  
SEND SUBSCRIPTION INTENTION T41  
SEND SUBSCRIPTION NECESSARY FILE T42  
SEND SUBSCRIPTION APPLICATION T43  
SEND CLIENT FUNCTION T44  
SEND USER INFORMATION T45

NOTIFY REGISTRATION PROCEDURE COMPLETION T46  
361 COMMUNICATION FUNCTION  
362 CONTENT KEY & USE CONDITION RECEIVING FUNCTION  
364 CONTENT KEY & USE CONDITION ISSUING FUNCTION  
365 SETTLEMENT PROCEDURE ACCEPTING FUNCTION  
366 DISTRIBUTION RECEIPT FUNCTION  
367 DATABASE FUNCTION  
USER INFORMATION T47

FIG. 32

200 USER

361 COMMUNICATION FUNCTION  
362 USE RIGHT ISSUING FUNCTION  
363 CONTENT KEY & USE CONDITION RECEIPT FUNCTION  
364 CONTENT KEY & USE CONDITION ISSUING FUNCTION  
365 SETTLEMENT PROCEDURE ACCEPTING FUNCTION  
366 DISTRIBUTION RECEIVING FUNCTION  
367 DATABASE FUNCTION  
SEND PURCHASE REQUEST T51  
SEND NEW USE RIGHT T52  
SEND RECEIPT CONFIRMATION T53

FIG. 33

341 COMMUNICATION FUNCTION  
342 CONTENT OBTAINING FUNCTION

343 CONTENT DISPLAYING FUNCTION  
344 SETTLEMENT FUNCTION  
345 CONTENT DATABASE  
    SEND CONTENT BILL T62  
    SEND CONTENT T63  
401 COMMUNICATION FUNCTION  
402 USER SUBSCRIPTION SUPPORT FUNCTION  
404 CONTENT DISTRIBUTING FUNCTION  
405 COLLECTING AND DISTRIBUTING FUNCTION  
403 DATABASE FUNCTION  
    FREELY ACCESS ANY CONTENT DISPLAYING AND DISTRIBUTING  
    ORGANIZATION, FREELY OBTAIN CONTENT T61  
    SEND CONTENT ID, USE CONDITION, AND CONTENT KEY T64  
361 COMMUNICATION FUNCTION  
362 USE RIGHT ISSUING FUNCTION  
363 CONTENT KEY & USE CONDITION RECEIPT FUNCTION  
364 CONTENT KEY & USE CONDITION ISSUING FUNCTION  
365 SETTLEMENT PROCEDURE ACCEPTING FUNCTION  
366 DISTRIBUTION RECEIVING FUNCTION  
367 DATABASE FUNCTION  
    REQUEST FOR USE CONDITION AND CONTENT KEY T65  
200 USER  
    SEND USE CONDITION AND CONTENT KEY T66

FIG. 34

401 COMMUNICATION FUNCTION  
402 USER SUBSCRIPTION SUPPORT FUNCTION  
404 CONTENT DISTRIBUTING FUNCTION  
405 COLLECTING AND DISTRIBUTING FUNCTION  
403 DATABASE FUNCTION  
RECORD USER SETTLEMENT INFORMATION AND CONTENT USAGE T72  
361 COMMUNICATION FUNCTION  
362 USE RIGHT ISSUING FUNCTION  
363 CONTENT KEY & USE CONDITION RECEIPT FUNCTION  
364 CONTENT KEY & USE CONDITION ISSUING FUNCTION  
365 SETTLEMENT PROCEDURE ACCEPTING FUNCTION  
366 DISTRIBUTION RECEIVING FUNCTION  
367 DATABASE FUNCTION  
200 USER  
SEND SETTLEMENT T71  
SEND SETTLEMENT CONFIRMATION T73

FIG. 35

341 COMMUNICATION FUNCTION  
342 CONTENT OBTAINING FUNCTION  
351 CONTENT BILL GENERATING FUNCTION  
352 CONTENT RECEIPT GENERATING FUNCTION  
353 CONTENT DATABASE CORRESPONDING FUNCTION

343 CONTENT DISPLAYING FUNCTION  
354 CONTENT DISPLAYING FUNCTION  
355 CONTENT DATABASE CORRESPONDING FUNCTION  
344 SETTLEMENT FUNCTION  
356 RECEIPT FUNCTION  
357 FINANCE ORGANIZATION CORRESPONDING FUNCTION  
345 CONTENT DATABASE

FIG. 36

361 COMMUNICATION FUNCTION  
362 USE RIGHT ISSUING FUNCTION  
371 PURCHASE REQUEST CONFIRMING FUNCTION  
372 FUNCTION TO CONFIRM DATA SUCH AS CLIENT USE BALANCE AND  
USAGE RECORD  
373 USE RIGHT GENERATING FUNCTION  
374 USE RIGHT SENDING NOTICE GENERATING FUNCTION  
375 FUNCTION TO SEND USE RIGHT AND USE RIGHT SENDING NOTICE  
376 USE RIGHT RECEIPT CONFIRMING FUNCTION  
377 USE RIGHT ISSUE INFORMATION STORING FUNCTION  
363 CONTENT KEY & USE CONDITION RECEIPT FUNCTION  
378 CONTENT KEY & USE CONDITION RECEIVING FUNCTION  
379 CONTENT KEY & USE CONDITION STORING FUNCTION  
364 CONTENT KEY & USE CONDITION ISSUING FUNCTION  
380 CONTENT KEY & USE CONDITION OBTAIN REQUEST RECEIVING

FUNCTION

381 CONTENT KEY & USE CONDITION SEARCHING FUNCTION  
382 CONTENT KEY & USE CONDITION SENDING FUNCTION  
383 CONTENT KEY & USE CONDITION RECEIPT CONFIRMING FUNCTION  
365 SETTLEMENT PROCEDURE ACCEPTING FUNCTION  
384 CONTENT USE RECORD RECEIVING FUNCTION  
385 CONTENT USE RECORD CONFIRMING FUNCTION  
386 CONTENT USE RECORD STORING FUNCTION  
387 SETTLEMENT PROCEDURE COMPLETION NOTICE GENERATING  
FUNCTION  
389 CONTENT USE RECORD SUMMARIZING FUNCTION  
366 DISTRIBUTION RECEIPT FUNCTION  
390 COLLECTION DATA REQUEST CONFIRMING FUNCTION  
391 CONTENT USE RECORD REPORT GENERATING FUNCTION  
392 USE RIGHT ISSUE INFORMATION REPORT GENERATING FUNCTION  
393 REPORT RECEIVE CONFIRMATION CONFIRMING FUNCTION  
367 DATABASE FUNCTION  
394 USE RIGHT DATABASE FUNCTION  
395 KEY & USE CONDITION DATABASE FUNCTION  
396 CONTENT USE RECORD DATABASE FUNCTION  
397 USE ADMINISTRATION DATABASE FUNCTION

FIG. 37

401 COMMUNICATION FUNCTION

402 USER SUBSCRIPTION SUPPORT FUNCTION  
411 SUBSCRIPTION APPLICATION GENERATING AND SENDING  
FUNCTION  
412 COMMON KEY RECEIVING FUNCTION  
413 SUBSCRIPTION APPLICATION CONFIRMING FUNCTION  
414 CLIENT ID GENERATING FUNCTION  
415 SUBSCRIPTION APPLICATION STORING FUNCTION  
416 CLIENT FUNCTION GENERATING FUNCTION  
417 REGISTRATION INFORMATION STORING FUNCTION  
403 DATABASE FUNCTION  
418 USER ADMINISTRATION DATABASE FUNCTION  
419 CONTENT DATABASE FUNCTION  
420 BILL INFORMATION ADMINISTRATION FUNCTION DATABASE  
FUNCTION  
421 CONTENT DISPLAYING & DISTRIBUTING FUNCTION  
ADMINISTRATION DATABASE FUNCTION  
404 CONTENT DISTRIBUTING FUNCTION  
422 CONTENT REQUEST CONFIRMING FUNCTION  
423 RAW CONTENT SEARCHING FUNCTION  
424 CONTENT ID GENERATING FUNCTION  
425 CONTENT KEY GENERATING FUNCTION  
426 CONTENT USE CONDITION GENERATING FUNCTION  
427 RAW CONTENT COMPRESSING FUNCTION  
428 CONTENT MANIPULATING FUNCTION

429 CONTENT ID, KEY & USE CONDITION STORING FUNCTION  
430 CONTENT SENDING FUNCTION  
431 CONTENT RECEIPT CONFIRMING FUNCTION  
432 CONTENT ID, KEY & USE CONDITION SENDING FUNCTION  
433 CONTENT ID, KEY & USE CONDITION RECEIPT CONFIRMING  
FUNCTION  
405 COLLECTING AND DISTRIBUTING FUNCTION  
434 COLLECT DATA REQUEST GENERATING FUNCTION  
435 CONTENT USE RIGHT RECEIVING FUNCTION  
436 CONTENT USE RECORD RECEIVING FUNCTION  
437 RECEIVE CONFIRMATION GENERATING FUNCTION  
438 USER BILLED FEE CALCULATING AND BILL GENERATING  
FUNCTION  
439 FUNCTION TO CALCULATE AMOUNT OF MONEY TO BE DISTRIBUTED  
TO USE RIGHT GRANTING PARTY AND GENERATE PAYMENT NOTICE

FIG. 38

451 COMMUNICATION FUNCTION  
452 CONTENT OBTAINING FUNCTION  
461 CONTENT OBTAINING FUNCTION  
462 CONTENT STORING FUNCTION  
453 USE RIGHT PURCHASING FUNCTION  
463 PURCHASE REQUEST GENERATING FUNCTION  
464 FUNCTION TO SUMMARIZE DATA SUCH AS CLIENT USE RIGHT

BALANCE AND USE RECORD

465 USE RIGHT INSTALLING FUNCTION

457 USE RIGHT RECEIPT GENERATING FUNCTION

454 CONTENT KEY & USE CONDITION OBTAINING FUNCTION

468 CONTENT KEY & USE CONDITION OBTAIN REQUEST GENERATING  
FUNCTION

469 CONTENT KEY & USE CONDITION RECEIVING FUNCTION

470 CONTENT KEY & USE CONDITION RECEIPT GENERATING FUNCTION

455 SETTLEMENT PROCEDURE FUNCTION

471 CONTENT USE RECORD SUMMARIZING FUNCTION

472 SETTLEMENT PROCEDURE COMPLETION NOTICE RECEIVING  
FUNCTION

456 USER SUBSCRIPTION SUPPORT FUNCTION

473 SUBSCRIPTION APPLICATION GENERATING FUNCTION

474 CLIENT FUNCTION INSTALLING FUNCTION

475 REGISTRATION INFORMATION GENERATING FUNCTION

457 CONTENT VIEWING BILLING FUNCTION

476 CONTENT SEARCHING FUNCTION

477 USE RIGHT CONFIRMING FUNCTION

478 SIMPLIFIED VIEWING FUNCTION

479 BILLING FUNCTION

480 CONTENT DECODING FUNCTION

481 CONTENT DECOMPRESSING FUNCTION

482 CONTENT VIEWER FUNCTION

458 DATABASE FUNCTION

483 USE RIGHT DATABASE FUNCTION

484 KEY & USE CONDITION DATABASE FUNCTION

485 CONTENT USE RECORD DATABASE FUNCTION

486 USER INFORMATION DATABASE FUNCTION

FIG. 39

1 PLAYER

61 STORAGE MEDIUM

FIG. 40

62 ADAPTER

1 PLAYER

61 STORAGE MEDIUM